

Water-Data Report 2008

12202420 MILL CREEK NEAR BELLINGHAM, WA

Puget Sound Basin
Strait of Georgia Subbasin

LOCATION.--Lat 48°45'19", long 122°24'55" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.27, T.38 N., R.4 E., Whatcom County, WA, Hydrologic Unit 17110002, on left bank 30 ft upstream from Flynn St., 50 ft downstream from small dam and pond, 3.0 mi from City of Bellingham and 0.2 mi upstream from mouth at Lake Whatcom.

DRAINAGE AREA.--0.79 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 320 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Regulation and diversion at the upstream dam and pond during summer months. Basin affected by urbanization.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--6 years (water years 2003-2008), 1.02 ft/s, 17.50 in/yr, 737 acre-feet/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27 ft³/s, Nov. 25, 2004, gage height, 3.28 ft; minimum discharge, no flow, many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft³/s, Dec. 3, gage height, 2.88 ft; minimum discharge, no flow, on many days during July to September.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.19	0.06	0.46	2.0	1.5	0.94	2.5	0.64	0.26	0.22	0.01	0.09
2	0.32	0.05	2.4	3.5	1.5	0.64	2.1	0.60	0.24	0.21	0.02	0.08
3	0.16	0.08	9.2	2.1	1.2	0.87	1.8	0.67	0.85	0.29	0.02	0.07
4	0.13	0.07	5.8	1.9	1.0	0.75	1.7	0.63	2.8	0.27	0.03	0.08
5	0.12	0.06	3.3	1.5	2.7	0.69	1.4	0.61	1.1	0.23	0.03	0.08
6	0.08	0.06	1.8	1.4	2.7	0.68	1.6	0.58	2.6	0.23	0.03	0.08
7	0.17	0.08	1.2	1.2	4.7	0.75	1.6	0.53	1.2	0.18	0.02	0.06
8	0.18	0.13	0.97	1.3	3.5	0.83	1.7	0.53	0.90	0.17	0.01	0.07
9	0.10	0.36	0.84	1.5	3.8	0.68	1.4	0.45	2.6	0.15	0.00	0.08
10	0.10	0.25	0.74	3.9	3.4	1.0	1.5	0.62	3.2	0.13	0.00	0.07
11	0.12	0.15	0.70	3.4	3.0	1.5	1.1	1.1	1.6	0.14	0.00	0.07
12	0.07	0.91	0.68	3.2	2.5	1.1	0.99	0.60	1.2	0.15	0.00	0.06
13	0.05	0.29	1.3	3.1	2.0	1.0	0.91	0.72	0.97	0.14	0.00	0.05
14	0.04	0.19	1.6	4.4	1.7	1.1	0.85	1.3	0.82	0.11	0.00	0.04
15	0.04	0.31	3.1	3.7	1.7	1.1	0.81	0.79	0.69	0.11	0.00	0.03
16	0.16	1.5	2.3	2.6	1.5	1.4	0.72	0.65	0.58	0.10	0.00	0.02
17	0.16	0.64	2.8	1.8	1.2	2.0	0.70	0.57	0.52	0.05	0.00	0.02
18	0.10	0.47	2.9	1.4	1.1	1.5	0.71	0.46	0.53	0.01	0.00	0.00
19	2.1	0.36	5.8	2.9	1.0	1.4	0.70	0.42	0.44	0.01	0.00	0.00
20	0.26	0.31	4.0	1.8	0.93	1.9	0.66	0.77	0.40	0.00	0.18	0.05
21	0.21	0.25	2.5	1.3	0.82	2.2	0.64	0.50	0.37	0.00	0.42	0.17
22	0.48	0.22	4.1	1.1	0.72	1.7	0.61	0.41	0.35	0.00	0.12	0.08
23	0.15	0.20	4.3	0.94	0.66	5.6	0.59	0.39	0.31	0.00	0.08	0.07
24	0.18	0.18	3.3	0.86	0.60	4.2	0.55	0.36	0.29	0.00	0.40	0.06
25	0.14	0.15	2.7	0.73	0.56	3.0	0.53	0.31	0.30	0.00	0.18	0.05
26	0.10	1.1	3.6	0.71	0.53	4.1	0.51	0.42	0.27	0.00	0.12	0.05
27	0.08	1.3	3.3	0.75	0.50	2.9	0.52	0.34	0.26	0.00	0.31	0.04
28	0.07	0.58	5.9	0.63	0.47	2.7	0.57	0.30	0.25	0.00	0.15	0.04
29	0.10	0.55	5.0	0.90	0.75	4.2	1.1	0.27	0.25	0.00	0.15	0.03
30	0.09	0.47	3.8	0.86	---	3.7	0.73	0.26	0.24	0.00	0.14	0.03
31	0.07	---	2.5	1.5	---	3.1	---	0.25	---	0.00	0.10	---
Total	6.32	11.33	92.89	58.88	48.24	59.23	31.80	17.05	26.39	2.90	2.52	1.72
Mean	0.20	0.38	3.00	1.90	1.66	1.91	1.06	0.55	0.88	0.09	0.08	0.06
Max	2.1	1.5	9.2	4.4	4.7	5.6	2.5	1.3	3.2	0.29	0.42	0.17
Min	0.04	0.05	0.46	0.63	0.47	0.64	0.51	0.25	0.24	0.00	0.00	0.00
Ac-ft	13	22	184	117	96	117	63	34	52	5.8	5.0	3.4
Cfsm	0.26	0.48	3.79	2.40	2.11	2.42	1.34	0.70	1.11	0.12	0.10	0.07
In.	0.30	0.53	4.37	2.77	2.27	2.79	1.50	0.80	1.24	0.14	0.12	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.50	1.48	2.03	3.00	1.70	1.57	1.13	0.29	0.32	0.04	0.06	0.07
Max	1.81	2.98	3.00	5.37	2.76	3.23	1.99	0.55	0.88	0.09	0.29	0.41
(WY)	(2004)	(2005)	(2008)	(2006)	(2006)	(2007)	(2005)	(2008)	(2008)	(2008)	(2004)	(2004)
Min	0.00	0.19	0.95	1.90	1.19	0.90	0.20	0.11	0.04	0.00	0.00	0.00
(WY)	(2003)	(2003)	(2003)	(2008)	(2004)	(2006)	(2004)	(2005)	(2007)	(2004)	(2002)	(2002)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2002 - 2008	
Annual total	421.97		359.27			
Annual mean	1.16		0.98		1.02	
Highest annual mean					1.23	2007
Lowest annual mean					0.63	2003
Highest daily mean	14	Jan 7	9.2	Dec 3	17	Jan 10, 2006
Lowest daily mean	0.00	Jul 3	0.00	Jul 20	0.00	Jul 13, 2002
Annual seven-day minimum	0.00	Jul 3	0.00	Jul 20	0.00	Jul 13, 2002
Annual runoff (ac-ft)	837		713		737	
Annual runoff (cfsm)	1.46		1.24		1.29	
Annual runoff (inches)	19.87		16.92		17.50	
10 percent exceeds	3.4		2.9		2.8	
50 percent exceeds	0.21		0.53		0.44	
90 percent exceeds	0.00		0.03		0.00	

